

# Non-cyclic chelating agents based on aminodialkylphosphoros oxides for the preparation of technetium or rhenium complexes.

**Publication number:** DE4408729

**Publication date:** 1995-09-21

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**Applicant:** HOECHST AG (DE)

**Classification:**

**- international:** **A61K51/00; A61K51/04; C07B59/00; C07F9/38;  
C07F9/40; C07F13/00; C09K3/00; A61K51/00;  
A61K51/02; C07B59/00; C07F9/00; C07F13/00;  
C09K3/00;** (IPC1-7): C07F9/38; A61K31/66; A61K51/00;  
C07F9/44; C07F9/58

**- European:** C07F13/00B; A61K51/04; A61K51/04P; C07B59/00F;  
C07F9/38A1; C07F9/40A1

**Application number:** DE19944408729 19940315

**Priority number(s):** DE19944408729 19940315

**Also published as:**



EP0672673 (A1)

JP7278166 (A)

CA2144588 (A1)

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Abstract not available for DE4408729

Abstract of corresponding document: **EP0672673**

Substd. aminodialkylphosphonic acids of formula (I) are new: R<1> = OH, NH<sub>2</sub>, or SH; R<2> = H, OH, NH<sub>2</sub>, SH, 1-4C alkyl, Ph, Bz, 1-4C alkoxy, OPh, OBz, 1-4C alkylamino, PhNH<sub>2</sub>, BzNH<sub>2</sub>, 1-4C mercaptoalkyl, thiophenyl, or mercaptobenzyl; R<3>, R<3>' = H or 1-4C alkyl; R<4> = 1-6C alkylene, 7-15C aralkylene, or a direct bond; R<5> = NH<sub>2</sub>, OH, SH, CH<sub>2</sub>, CH(R<7>), CH(NH<sub>2</sub>), CH(OH), or an ester or amide gp; R<6> = N<sub>3</sub>, halo, or SH; or COOH when R<5> = CH<sub>2</sub>, CH(R<7>), (CH(NH<sub>2</sub>)) or CH(OH); 6-vinyl-pyridyl-2-ylmethyl or haloacetyl when R<5> = NH<sub>2</sub>, OH or SH; or 1,4-dioxo-but-2-en-1,4-diyl or =C=S when R<5> = NH<sub>2</sub>; R<7> = side-chain of natural amino acid.

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